Conclude:

1. The Sverdrup Balance explains important features of the mean circulation in the NE tropical Pacific.

2. Positive curl due to the Papagayo wind jet forces upwelling amounting to about 3.7 Sv through 17°C.

   Consequences of this upwelling include:

   - Stretching of the water column forces the northern Tsuchiya Jet to turn poleward and upwell.
   - A relatively cool region (SST about 1°C cooler than surrounding areas) is probably due to the upwelling.

3. Downwelling curl SW of Tehuantepec produces a dip in the 10°N thermocline ridge and weakens the NECC near 110°W.

4. The imprint of the unusual wind system of the NE tropical Pacific on the ocean may turn out to be an aspect of the path by which intermediate-depth water, flowing into the Pacific from the south, is brought to the surface and into the northern hemisphere.

Future work:

- Time dependence
- Peru upwelling region
- Formal inverse of the east Pacific (with Johnson and Sloyan)

All figures from this talk are available at:

http://www.pmel.noaa.gov/~kessler/feb01-talk.html